3. Data Sources

3.1 - Source Descriptions

3.1.1 FTP Server

Connection details:

- Host = ftp.meteologica.com
- Port = 21
- User = soda_ash

METEOLOGICA (FTP server):

CSV files containing data about the forecast energy prices by country - Spain, Italy, Germany, France.

Folders:

- /20160301/Europe/Spain/PowerPrice/Forecast/Meteologica/Total/Hourly
- /20160301/Europe/Spain/PowerPrice/Forecast/ECMWF-ENS/Total/Hourly
- /20160301/Europe/Spain/PowerPrice/Observation/Total/Hourly
- /20160301/Europe/Italy/PowerPrice/Forecast/Meteologica/CNOR/Total/Hourly
- /20160301/Europe/France/PowerPrice/Forecast/Meteologica/Total/Hourly
- /20160301/Europe/Germany/PowerPrice/Forecast/Meteologica/Total/Hourly

Folder structure (Example, /20160301/Europe/France/PowerPrice/Forecast/Meteologica/Total /Hourly for 2023.08.26):

- France_PowerPrice_Forecast_Meteologica_post-ECMWF-ENS_Total_Hourly_202308260000.csv (data from 10 am)
- France_PowerPrice_Forecast_Meteologica_Total_Hourly_202308261333.csv (data from 2 pm)
- France_PowerPrice_Forecast_Meteologica_Total_Hourly_202308261533.csv (data from 4 pm)
- France_PowerPrice_Forecast_Meteologica_post-ECMWF-ENS_Total_Hourly_202308261200.csv (data from 10 pm)

Files with the same date contain the same data, provided 4 times a day.

Structure of the files (example France_PowerPrice_Forecast_Meteologica_post-ECMWF-ENS_Total_Hourly_202308260000.csv):

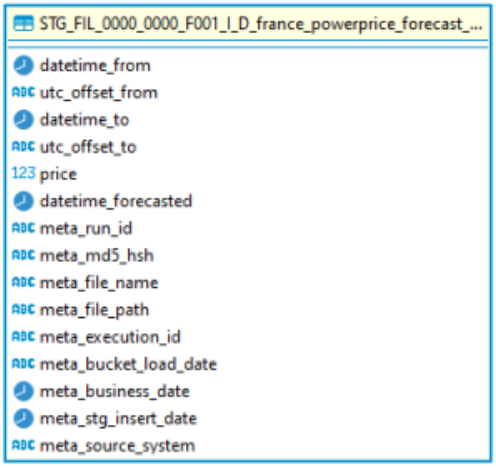
	A	B	C	D	E
1	France Price forecasts				
2	Forecasts in Europe/Paris Time				
3	Info in EUR/MWh				
4	Forecasted at 2023-08-26 07:46:28 UTC				
5	From yyyy-mm-dd hh:mm	UTC offset from (UTC+/-hhmm)	To yyyy-mm-dd hh:mm	UTC offset to (UTC+/-hhmm)	price
6	26.8.2023 10:00	UTC+0200	26.8.2023 11:00	UTC+0200	[redacted]
7	26.8.2023 11:00	UTC+0200	26.8.2023 12:00	UTC+0200	[redacted]
8	26.8.2023 12:00	UTC+0200	26.8.2023 13:00	UTC+0200	[redacted]
9	26.8.2023 13:00	UTC+0200	26.8.2023 14:00	UTC+0200	[redacted]
10	26.8.2023 14:00	UTC+0200	26.8.2023 15:00	UTC+0200	[redacted]
11	26.8.2023 15:00	UTC+0200	26.8.2023 16:00	UTC+0200	[redacted]
12	26.8.2023 16:00	UTC+0200	26.8.2023 17:00	UTC+0200	[redacted]
13	26.8.2023 17:00	UTC+0200	26.8.2023 18:00	UTC+0200	[redacted]
14	26.8.2023 18:00	UTC+0200	26.8.2023 19:00	UTC+0200	[redacted]
15	26.8.2023 19:00	UTC+0200	26.8.2023 20:00	UTC+0200	[redacted]
16	26.8.2023 20:00	UTC+0200	26.8.2023 21:00	UTC+0200	[redacted]
17	26.8.2023 21:00	UTC+0200	26.8.2023 22:00	UTC+0200	[redacted]
18	26.8.2023 22:00	UTC+0200	26.8.2023 23:00	UTC+0200	[redacted]
19	26.8.2023 23:00	UTC+0200	27.8.2023 0:00	UTC+0200	[redacted]
20	27.8.2023 0:00	UTC+0200	27.8.2023 1:00	UTC+0200	[redacted]
21	27.8.2023 1:00	UTC+0200	27.8.2023 2:00	UTC+0200	[redacted]
22	27.8.2023 2:00	UTC+0200	27.8.2023 3:00	UTC+0200	[redacted]
23	27.8.2023 3:00	UTC+0200	27.8.2023 4:00	UTC+0200	[redacted]
24	27.8.2023 4:00	UTC+0200	27.8.2023 5:00	UTC+0200	[redacted]

All four files are consolidated into one file with the additional column datetime_forecasted.

The STG/ODS table format is given below (table structures will be provided as a part of the Talend integration documentation):

Responsible & contact points:

- **Alessandro Mainardi - Project Owner**
- **Simon Bourguignon - Delivery Manager**
- **Alba Carrero/ Gaetan Frenoy - Product Owner**
- **Rui Ferraz - Project Manager**



The different format is presented only in the SPAIN_ENS data source where there are 50 ens column with the presented prices, and the top, bottom and average price columns.

3.1.2 Database

Connection details:

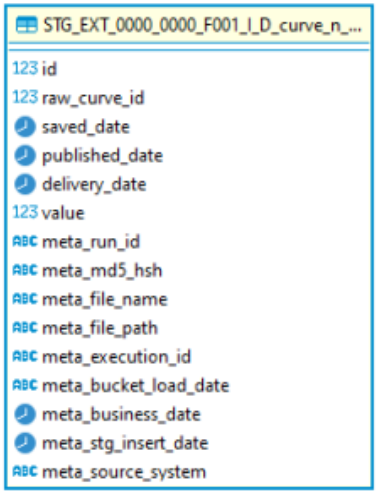
- Host = 34.140.71.199
- Port = 5432
- User = talend
- Schema = public
- Database = warehouse_ses_1

VENDOHM DATABASE:

Gas & electricity (weekly, monthly, yearly values by location)

- Tables with prices with the same structure (mapping is provided in the Excel file "List of tables_filters for Vendohm database of Robustify")
  List of tables_filters for Vendohm database of Robustify
- Meteo table curve_n_ometeo_870 (mapping with the definitions and curve IDs provided in the Excel file "Vendohm_meteo_mapping" -**this should be provided as a Metadata table**)
  Vendohm_meteo_mapping

Example of the structure (Vendohm data):



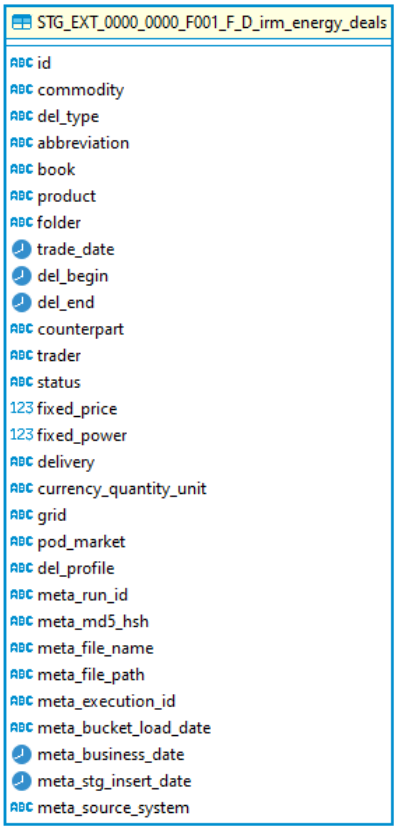
3.3.3 IRM DATABASE:

Connection details:

- Host = acew1pirmdb01.prod.aws.cloud.solvay.com
- Port = 1530
- User = interface
- Schema = interface
- Database = IRMPROD

Information about energy deals by market, site, product, etc., with prices.

Example of the structure (IRM data):

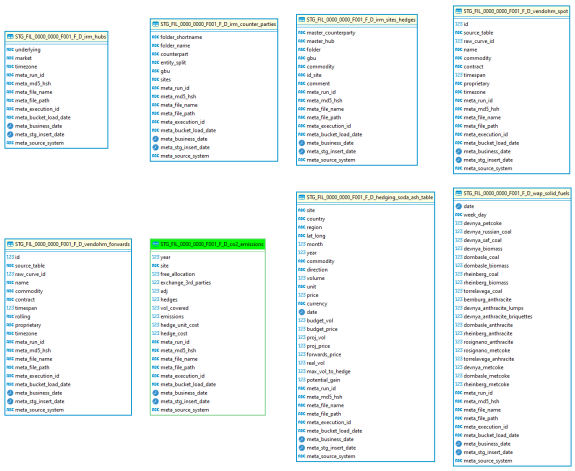


3.1.4 Google Sheets

GSHEETS:

- **WAP Solid Fuels**
- **CO2**
- **Vendohm Forwards**
- **Vendohm Spot**
- **Energy Deals Hubs**
- **Energy Deals Counter Parties**
- **Energy Deals Sites Hedges**
- **Hedging_soda_ash_table obsolete**

Example of the structure:


STG_FIL_0000_0000_F001_F_D_irm_hubs
underlying
market
timezone
meta_run_id
meta_md5_hsh
meta_file_name
meta_file_path
meta_execution_id
meta_bucket_load_date
meta_business_date
meta_stg_insert_date
meta_source_system
STG_FIL_0000_0000_F001_F_D_irm_counter_parties
folder_shortname
folder_name
counterpart
entity_split
gbu
sites
meta_run_id
meta_md5_hsh
meta_file_name
meta_file_path
meta_execution_id
meta_bucket_load_date
meta_business_date
meta_stg_insert_date
meta_source_system
STG_FIL_0000_0000_F001_F_D_irm_sites_hedges
master_counterparty
master_hub
folder
gbu
commodity
id_site
comment
meta_run_id
meta_md5_hsh
meta_file_name
meta_file_path
meta_execution_id
meta_bucket_load_date
meta_business_date
meta_stg_insert_date
meta_source_system
STG_FIL_0000_0000_F001_F_D_vendohrn_spot
id
source_table
raw_curve_id
name
commodity
contract
timespan
proprietary
timezone
meta_run_id
meta_md5_hsh
meta_file_name
meta_file_path
meta_execution_id
meta_bucket_load_date
meta_business_date
meta_stg_insert_date
meta_source_system
STG_FIL_0000_0000_F001_F_D_vendohrn_forwards
id
source_table
raw_curve_id
name
commodity
contract
timespan
rolling
proprietary
timezone
meta_run_id
meta_md5_hsh
meta_file_name
meta_file_path
meta_execution_id
meta_bucket_load_date
meta_business_date
meta_stg_insert_date
meta_source_system
STG_FIL_0000_0000_F001_F_D_co2_emissions
year
site
free_allocation
exchange_bid_parties
adj
hedges
vol_covered
emissions
hedge_unit_cost
hedge_cost
meta_run_id
meta_md5_hsh
meta_file_name
meta_file_path
meta_execution_id
meta_bucket_load_date
meta_business_date
meta_stg_insert_date
meta_source_system
STG_FIL_0000_0000_F001_F_D_hedging_soda_ash_table
site
country
region
lat_long
month
year
commodity
direction
volume
unit
price
currency
date
budget_vol
budget_price
proj_vol
proj_price
forwards_price
real_vol
max_vol_to_hedge
potential_gain
meta_run_id
meta_md5_hsh
meta_file_name
meta_file_path
meta_execution_id
meta_bucket_load_date
meta_business_date
meta_stg_insert_date
meta_source_system
STG_FIL_0000_0000_F001_F_D_iwap_solid_fuels
date
wash_dep
devnya_petcoke
devnya_russian_coal
devnya_saf_coal
devnya_biomass
dombasle_coal
dombasle_biomass
rheinberg_coal
rheinberg_biomass
tomelawaga_coal
bernburg_anthracite
devnya_anthracite_lumps
devnya_anthracite_briquettes
dombasle_anthracite
rheinberg_anthracite
rosignano_anthracite
rosignano_metcoke
tomelawaga_anthracite
devnya_metcoke
dombasle_metcoke
rheinberg_metcoke
meta_run_id
meta_md5_hsh
meta_file_name
meta_file_path
meta_execution_id
meta_bucket_load_date
meta_business_date
meta_stg_insert_date
meta_source_system